



IAP12 Rec'd PCT/PTO 25 JUN 2007 PCT

PTO/SB/21 (04-07)(modified)

Approved for use through 09/30/2007, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

13

Complete if Known	
Application Number	10/588,583
Filing Date	August 4, 2006
First Named Inventor	Suzuki
Art Unit	Not yet known
Examiner Name	Not yet known
Attorney Docket No.	YH0028-US1

### ENCLOSURES (Check all that apply)

Fee Transmittal Form (*in duplicate*)  
 Fee Attached  
 Amendment/Reply  
 After Final  
 Affidavits/declaration(s)  
 Extension of Time Request  
 Express Abandonment Request  
 Information Disclosure Statement  
 Certified Copy of Priority Document(s)  
 Reply to Missing Parts/Incomplete Application  
  
 Reply to Missing Parts under 37 CFR 1.52 or 1.53

Drawing(s)  
 Licensing-related Papers  
 Petition  
 Petition to Convert to a Provisional Application  
 Power of Attorney, Revocation Change of Correspondence Address  
 Terminal Disclaimer  
 Request for Refund  
 CD, Number of CD(s)  
 Landscape Table on CD

After Allowance Communication to TC  
 Appeal Communication to Board of Appeals and Interferences  
 Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  
 Proprietary Information  
 Status Letter  
 Other Enclosure(s) (please identify below):

Return postcard, Declaration & Power of Attorney, Copy of Notification of Missing Requirements Under 35 U.S.C. 371, SB08A&B in duplicate with copies of art

Remarks: (*Duplicate copy of Fee Transmittal for deposit account, Return Postcard and Cited Art are not counted in total number of pages in this submission.*)

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Tyco Electronics Corporation		
Signature			
Printed Name	Marguerite E. Gerstner		
Date	June 20, 2007	Reg. No.	32,695

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Marguerite E. Gerstner	Date	June 20, 2007



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PTO/SB/17 (04-07)(modified)  
Approved for use through 04/30/2007, OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

<b>FEES PAYABLE TO THE U.S. PATENT AND TRADEMARK OFFICE</b>		<b>Complete if Known</b>	
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).		Application Number	10/588,583
<b>Fee Transmittal</b>		Filing Date	August 4, 2006
<b>For FY 2007</b>		First Named Inventor	Suzuki
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Examiner Name	Not yet known
TOTAL AMOUNT OF PAYMENT (\$ 130.00)		Art Unit	Not yet known
		Attorney Docket No.	YH0028-US1

**METHOD OF PAYMENT** (check all that apply)

Check  Credit Card  Money Order  None  Other (please identify): \_\_\_\_\_

Deposit Account Deposit Account Number: 18-0560 Deposit Account Name: Tyco Electronics Corporation  
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  Charge fee(s) indicated below, except for the filing fee  
 Charge any additional fee(s) or underpayments of fee(s)  Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

<b>Application Type</b>	<b>FILING FEES</b>		<b>SEARCH FEES</b>		<b>EXAMINATION FEES</b>		
	<b>Fee (\$)</b>	<b>Small Entity</b>	<b>Fee (\$)</b>	<b>Small Entity</b>	<b>Fee (\$)</b>	<b>Small Entity</b>	<b>Fees Paid (\$)</b>
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

**2. EXCESS CLAIM FEES**

**Fee Description**

Each claim over 20 (including Reissues)

**Small Entity**

**Fee (\$)** **Fee (\$)**

50 25

Each independent claim over 3 (including Reissues)

200 100

Multiple dependent claims

360 180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>
_____	- 20 or HP = _____	_____ x _____ = _____	_____	<b>Fee (\$)</b> <b>Fee Paid (\$)</b>

HP = highest number of total claims paid for, if greater than 20

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____	- 3 or HP = _____	_____ x _____ = _____	_____

HP = highest number of independent claims paid for, if greater than 3

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____	- 100 = _____	/ 50 = _____ (round up to a whole number)	_____ x _____ = _____	_____

**4. Other Fee(s)**

Non-English Specification, \$130 fee (no small entity discount)

**Fees Paid (\$)**

Other (e.g., late filing surcharge): Late Filing of Declaration

**N/A**

**130.00**

**SUBMITTED BY**

Signature	<u>Marguerite E. Gerstner</u>	Registration No. (Attorney/Agent)	32,695	Telephone	650-361-2483
Name (Print/Type)	Marguerite E. Gerstner	Date June 20, 2007			

**Certificate of Mailing (37 CFR 1.8)**

I hereby certify that this paper or fee is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below:

Date of deposit: June 20, 2007

Name (printed): Marguerite E. Gerstner

Signature:

Marguerite E. Gerstner

06/28/2007 GFREY1 00000117 180560 10588583  
01 FC:1617 130.00 DA



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/588,583	Katsuaki Suzuki	YH0028-US1

INTERNATIONAL APPLICATION NO.
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PCT/JP05/01481

I.A. FILING DATE	PRIORITY DATE
02/02/2005	02/06/2004

27788  
 TYCO ELECTRONICS CORPORATION  
 MAIL STOP R20/2B  
 307 CONSTITUTION DRIVE  
 MENLO PARK, CA 94025

RECEIVED

MAY - 7 2007

IPLD MENLO PARK

DOCKETED  
 05/07/07

Date Mailed: 05/01/2007

CONFIRMATION NO. 8731

371 FORMALITIES LETTER



\*OC000000023599650\*

## NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 08/04/2006
- English Translation of the IA filed on 08/04/2006
- Copy of the International Search Report filed on 08/04/2006
- Preliminary Amendments filed on 08/04/2006
- U.S. Basic National Fees filed on 08/04/2006
- Priority Documents filed on 08/04/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

## SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

ANITA D JOHNSON

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Telephone: (703) 308-9140 EXT 226

**PART 1 - ATTORNEY/APPLICANT COPY**

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U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/588,583	PCT/JP05/01481	YH0028-US1

FORM PCT/DO/EO/905 (371 Formalities Notice)



PATENT APPLICATION  
YH0028-US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of ) Group Art Unit: Not yet known  
SUZUKI )  
Application No. 10/588,583 ) Examiner: Not yet known  
Filed: August 4, 2006 ) TYCO ELECTRONICS CORPORATION  
For: SWITCH AND DEVICE USING ) 307 Constitution Drive  
THE SWITCH ) Menlo Park, CA 94025  
 ) June 20, 2007  
 )  
 )

REPLY TO NOTICE OF MISSING PARTS  
and  
DISCLOSURE STATEMENT UNDER 37 CFR § 1.56

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office, dated May 1, 2007, attached is the signed Declaration. Please charge the surcharge (\$130) for this submission to Deposit Account No. 18-0560. Any deficiency or overpayment should be charged or credited to this deposit account.

Disclosure Under 37 CFR § 1.56

In fulfilling the duty of candor and good faith, the following documents are hereby disclosed to the Patent Office in accordance with 37 CFR § 1.56. It is not admitted that the information in the listed documents is material to patentability as defined in 37 CFR § 1.56(b). The Examiner is requested to consider the documents in the examination of this application.

CERTIFICATE OF MAILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below:

Name of person signing certificate: Marguerite E. Gerstner

Signature: Marguerite E. Gerstner Date: June 20, 2007

Accompanying this statement are Forms PTO/SB/08A and PTO/SB/08B in duplicate on which the documents are listed. The Examiner is requested to return an initialed and signed copy of the forms once the documents have been considered.

The following documents were cited by the Japanese Patent Office in the International Search Report for International Application No. PCT/JP2005/001481 which is a counterpart for this application. Each of the documents was cited in category "A" as a "document defining the general state of the art which is not considered to be of particular relevance". A copy of the Search Report is attached.

#### FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Translation	Category
JP-3-121636-A	12-12-1991	Seikosha Co. Ltd.	No	A
JP-59-215617-A	12-05-1984	Tomoyoshi Miyata	No	A
JP-09-326225-A	12-16-1997	Fuji Tanshi Kogyo KK	Abstract	A

The following documents were cited by the European Patent Office in the Supplementary European Search Report for European Application No. 05709602.6, which is a counterpart for this application. One document was cited in both category "X" ("particularly relevant if taken alone") and category "Y" ("particularly relevant if combined with another document of the same category"); two documents were cited in category "Y"; and two documents were in category "A" as "technological background". A copy of the Search Report is attached.

#### U.S. PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Category
US-3454733-A	07-08-1969	Sanford et al.	Y
US-5473495-A	12-05-1995	Bauer	A

#### FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Translation	Category
GB-2341729-A	03-22-2000	Rover Group	N/A	X, Y
EP-0363746-A1	04-18-1990	Asea Brown Boveri	N/A	Y
EP-0756301-A2*	01-29-1997	Thermik Geraetebau GmbH	US counterpart	A

\* Counterpart of U.S. Patent No. 5,745,022 (Becher et al.)

The following document is referred to in the specification.

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Translation
JP-10-188716	07-21-1998	Yazaki Corp.	Abstract

Copies of Documents

A copy of each of the cited documents, as well as the US counterpart for EP 0756301, is attached.

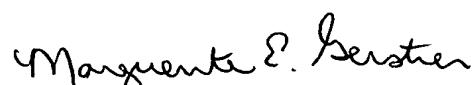
Fee

Applicant believes that because this Disclosure Statement is being submitted before the mailing of a first action on the merits, no fee is due. If this is incorrect, please charge any necessary fee to Deposit Account No. 18-0560.

Conclusion

If there are any questions, the Examiner is asked to call the undersigned.

Respectfully submitted,



Marguerite E. Gerstner  
Registration No. 32,695  
Telephone (650) 361-2483